REMARKS

Claims 1-20 are pending in this application. By this Amendment, Figure 2, the specification and claims 4, 10 and 12 are amended and claims 16-20 are added. Reconsideration in view of the above amendments and the following remarks is respectfully requested.

A.   The Office Action objects to the drawings. The enclosed Request for Approval of Drawing Amendment amends Figure 2. Applicants respectfully request express approval of these amendments. Applicants respectfully submit that the above amendments obviate the grounds for the objection. Withdrawal of the objection to the drawings is respectfully requested.

B.   The Office Action objects to claim 4 for informalities. Applicants respectfully submit the above amendments obviate the grounds for the objection. Withdrawal of the objection of claim 4 is respectfully requested.

C.   The Office Action rejects claim 12 under 35 U.S.C. §112, second paragraph. Applicants respectfully submit that the above amendments obviate the grounds for the rejection. Withdrawal of the rejection of claim 12 is respectfully requested.

D.   The Office Action rejects claims 1-15 under 35 U.S.C. §103(a) over U.S. Patent No. 6,292,667 to Wallentin et al. (hereafter "Wallentin") and U.S. Patent No. 6,240,083 to Wright et al. (hereafter "Wright"). The rejection is respectfully traversed.

Applicants respectfully submit that Wallentin and Wright, individually or in combination, do not teach or suggest at least a feature wherein, when said active terminal moves from a first one of said radio network controllers to a second one of said radio network controllers in a

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suspended state or a dormant state, medium access control layer state information and radio resource control information of said active terminal are maintained between said first and second radio network controllers under control of said location management unit and combinations thereof as recited in claim 1. The Office Action asserts that Wallentin discloses an inter-RNC transport link 32 to transfer information under control of a location management unit citing column 6, lines 55-63 of Wallentin. Applicants respectfully submit column 6, lines 55-63 discloses the inter-RNC transport link 32 utilized the transport of control and data signals facilitating the inter-RNC soft-handovers. See column 6, lines 58-59.

1.   Applicants respectfully submit that Wallentin discloses a cellular telecommunication system that saves radio resources by using location updating messaging. In location updating, the idle mobile station updates a home location register (HLR) and visitor location register (VLR) to identify the current location area or routing area hereafter referred to in Wallentin as "multicell areas." See column 2, lines 1-19, 43-48 and 61-63 of Wallentin. Accordingly, Applicants respectfully submit Wallentin merely discloses updating the HLR or VLR. See column 6, lines 51-54. Further, Applicants respectfully submit Wallentin discloses when the core network needs to page a mobile station that is idle, the page should be sent to all cells within the multicell area (e.g., location area). However, Wallentin solves a problem that previously the core network (e.g., the mobile switching centers (MSC)) did not know to which RNCs the page should be sent. See column 3, lines 62-67. Thus, Wallentin discloses the core network transmitting a page message in order to make connection between a calling party from

the core network and the mobile station. See column 10, lines 39-49 and column 12, lines 50-53

of Wallentin. Accordingly, Wallentin does not teach or suggest functions more than updating

the HLR and/or VLR when a mobile station is in idle. Thus, Wallentin does not teach or

suggest at least a feature of when said active terminal moves to a second one of said radio

network controllers in a suspended state or a dormant state information of said active terminal

are maintained and combinations thereof as recited in claim 1. Wallentin further does not teach

or suggest at least a feature of a location management unit and combinations thereof as recited

in claim 1.

In contrast, Wallentin solves the prior art problem by providing a paging control node

paging table in a designated RNC to be contacted by the core network (MSC) when sending the

page message to a mobile station in a multicell area. The paging control node paging table can

be used to determine the applicable RNCs controlling a portion of the multicell area, and then,

the page message is sent to the applicable RNCs via the inter-RNC transport link 32. See

Figures 3A and 3B and descriptions thereof in Wallentin.

2.   Finally, in contrast to preferred embodiments of the present invention, Wallentin

discloses updating the controlling RNC information after the connection between the calling

party in the core network and the mobile station is made. Wallentin uses a serving RNC

moveover procedure. See column 13, line 40-column 15, line 15 of Wallentin.

3.   The Office Action admits Wallentin does not teach or suggest maintaining medium access control layer state information. The Office Action asserts Wright teaches such features lacking from Wallentin. See page 4, lines 9-17 of the Office Action.

Applicants respectfully submit that Wright does not teach or suggest at least the features recited in claim 1 lacking from Wallentin. Further, Wright is directed to a Multiple Access Communication network with combined contention and reservation mode access. Applicants respectfully submit column 27, line 57-column 31, line 17 is directed to a basic state machine used by a subscriber device 26 to control access to the reverse channel as shown in Figure 22. Thus, Applicants respectfully submit Wright is directed to channel access for communicating a data packet over a multiple access communication network having a forward and a reverse channel where control packets are received and read by subscriber device 26 to determine if a contention or reservation mode is indicated for a reverse channel. See Figure 7 and column 12, line 51-column 13, line 64 of Wright. Thus, Applicants respectfully submit Wright does not teach or suggest medium access control layer state information and radio resource control information of said active terminal are maintained between a first and second radio network controllers under control of the location management unit when the active terminal is in a suspended state or a dormant state as recited in claim 1. Further Applicants respectfully submit Wright does not teach or suggest at least features of a medium access control (MAC) layer state and combinations thereof as recited in claim 8.

In particular, Applicants respectfully submit Wright discloses a MAC layer of subscriber device 26 in an idle state, an access state, a decode wait state, a reservation wait state and a transmit reservation wait state for the state machine used to control access to a reverse channel. As discussed in the related art of the present specification, there is not a medium access control (MAC) state under a packet data service inactive condition. Further, Applicants respectfully submit that Wright does not disclose a definition for a "MAC" layer. Accordingly, Applicants respectfully request the location be provided by the U.S. Patent Office of the description of the acronym (MAC) in Wright as being related to medium or media access control.

4.   Further, Applicants respectfully submit that Wallentin and Wright, individually or in combination, do not teach or suggest any modification to their disclosure that would result in at least features of the location management unit and combinations thereof as recited in claim 1.

For at least the reasons set forth above, Applicants respectfully submit claim 1 defines patentable subject matter. Claims 8 and 10 define patentable subject matter for at least reasons similar to claim 1. Claims 2-7, 9 and 11-15 depend from claims 1, 8 and 10, respectively, and therefore also define patentable subject matter for at least that reason as well as their additionally recited features.

With respect to claim 10, Applicants respectfully submit that Wallentin and Wright, individually or in combination disclose at least features of allowing the active terminal to detect a received pilot signal, allowing the active terminal to determine whether to perform a handoff

operation at a suspended state, and allowing <u>the active terminal</u> to request its change to one of a dormant state and an active state to perform the handoff operation and combinations thereof. In contrast, Applicants respectfully submit any <u>initiation</u> described in Wallentin of an update to a controlling RNC status is a result of the page message initiated by the core network (MSC).

E.   Claims 16-20 are newly added by this Reply and believed to be in condition for allowance.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Carl R. Wesolowski**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
FLESHNER & KIM, LLP

Daniel Y.J. Kim
Registration No. 36,186
Carl R. Wesolowski
Registration No. 40,372

Encs: Petition for Extension of Time
       Request for Approval of Drawing Amendment

P.O. Box 221200
Chantilly, VA 20153-1200
703 502-9440 DYK/CRW:jld
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